## Missouri Department of Natural Resources



#### PUBLIC NOTICE

#### DRAFT MISSOURI STATE OPERATING PERMIT

DATE: June 23, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, ATTN: Gary L. Gaines, P.E., Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see <u>Curdt v. Mo. Clean Water Commission</u>, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by July 23, 2006 or received in our office by 5:00 p.m. on July 26, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <a href="http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm">http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm</a>, or at the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: June 23, 2006
Permit Number: MO-0080667
Southeast Regional Office

Southeast Regional Office				
FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER			
Arcadia East	City of Arcadia			
P.O. Box 86	P.O. Box 86			
Arcadia, MO 63621	Arcadia, MO 63621			
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE			
Unnamed Tributary to Stouts Creek 2 (u)	Domestic, Re-issue			
SE ¼, NE ¼, Sec. 5, T33N, R4E, Iron				
County				

## STATE OF MISSOURI

## DEPARTMENT OF NATURAL RESOURCES



# MISSOURISTATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92m Congress) as amended,

Permit No.: MO-0080667

Owner: City of Arcadia

Owner's Address: P.O. Box 86, Arcadia, MO 63621

Continuing Authority: Same as above Continuing Authority's Address: Same as above

Facility Name: Arcadia East Lagoon

Facility Address: P.O. Box 86, Arcadia, MO 63621

Legal Description: SE ¼, NE ¼, Sec. 5, T33N, R4E, Iron County

Latitude/Longitude: +3735290/-09037210

Receiving Stream: Unnamed Tributary to Stouts Creek 2(U)

First Classified Stream and ID: Stouts Creek 2 (P) (02893)

USGS Basin & Sub-watershed No.: (08020202-010004)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

## **FACILITY DESCRIPTION**

MO 780-0041 (10-93)

Outfall #001 - 92-500 POTW -SIC #4952

Three Cell Lagoon/sludge is retained in lagoon.

Design population equivalent is 120.

Design flow is 12,000 gallons per day.

Actual flow is 9,000 gallons per day.

Design sludge production is 1.8 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date	Doyle Childers, Director, Department of Natural Resources Executive Secretary, Clean Water Commission
Expiration Date	Gary L. Gaines, P.E., Director, Southeast Regional Office

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 5

PERMIT NUMBER MO-0080667

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until the day prior to expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OLITEALL ANNIMBED AND SEELLISHT		FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> **	mg/I)		45	45	once/month	grab
Total Suspended Solids**		7	120	80	once/month	grab
pH - Units		***		***	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED Monthly; THE FIRST REPORT IS DUE \_\_\_\_\_\_. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective one day prior to expiration and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

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OUTEAU AUMADED AND FEEL VENT		FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS		
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> **	mg/L		65	45	once/month	grab
Total Suspended Solids**	mg/L		120	80	once/month	grab
pH - Units	SU	***		***	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab
Fecal Coliform****	#/100 mL	1000		400	once/month	grab
Total Residual Chlorine (Note 1)	mg/L	.019 (.13ML)		.010 (.13ML)	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED Monthly; THE FIRST REPORT IS DUE \_\_\_\_\_\_. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

#### **B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, II & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitor and report.
- \*\* This facility is required to meet a removal efficiency of 65% or more.
- \*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\* Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.

Note 1 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD colorimetric Method #4500 CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate **if it is not needed to meet the limits in your permit.**
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

## C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.
- The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
- 2. All outfalls must be clearly marked in the field.

## C. SPECIAL CONDITIONS (continued)

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

4. Changes in Discharges of Toxic Substances

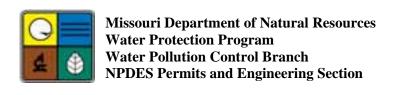
The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred on will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following that fication levels: "
  (1) One hundred micrograms per liter (100 µg/L);
  (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;

  - five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6 dimitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.
- 6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (e) There shall be no significant human health hazard from incidental contact with the water;
  - (f) There shall be no acute toxicity to livestock or wildlife watering;
  - (q) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- 7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
  - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
  - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

#### D. SCHEDULE OF COMPLIANCE

- 1. The final daily maximum and monthly average Fecal Coliform limits of 400/100ml and 1000/100ml, respectively, shall become effective at the completion of construction of new facilities or one day prior to the expiration date of the permit or December 31, 2013, whichever comes first unless items bor college are approved by the Department. The Effluent Regulation, 10 CSR 20 7.015(9)(H), allows the permittee up to five years from the issuance date of this permit to:
- a.) Install disinfection facilities, or;
- b.) Present an evaluation to show that disinfection is not required to protect one or both recreational uses, or;
- c.) Present a Use Attainability analysis (UAA) that demonstrates one or both designated recreational uses are not attainable in the classified waters receiving the effluent. For more information on UAA's please contact the Water Protection Program at (573) 751-1300.
- d.) Suggested timeline to comply with standard:
  - 1.) Submit evaluation or UAA if applicable within one year from issuance of this permit.
  - 2.) If evaluation or UAA is not applicable or submittal resulted in Whole Body Contact retention, then include disinfection equipment in the construction permit application submittal in accordance with item 3 above. The application shall include applicable fees, plans and specifications in accordance with the approved preliminary engineering report. (If a facility utilizes disinfection by chlorine, it may be required to dechlorinate the effluent.)
  - 3.) Submit letter of authorization or statement of work complete signed by the owner and a licensed professional engineer in the State of Missouri prior to expiration of this permit.



		Sheet Check I mit Renewal	List				
Facility Info Facility Na Facility Ty	me: A	rcadia East La hree Cell Lago			Permit #: Age:	MO-0080667 14 Years	
Outfall Cha	racteristic	<u>s</u>	U / U /				
Outfall	Design	Flow (MGD)	Actual Flow (MGD)	Actual Flo	ow/Design Flow		
001	.012		.009	75%			
Total Susper Percent Rem Effluent Lin	nded Solids noval (>65% nit/Monitor	6) BOD & TSS	In Compliance X In Compliance X In Compliance   t Frequency at regulator	y minimum:	Significant Noncom Significant Noncom Significant Noncom Yes X No	npliance	
		Information	mibutamy to Stauta Crac	J. 2		Class: U	
Waterbody Name: <u>Unnamed Tributary to Stouts Creek 2</u> Waterbody Name:			CK Z	Class:			
Discharge to Use Attainal	or within to bility Analy	two (2) miles of sis Conducted [		lesignated for w			
			vaterbody types below, is not		experiencing rapid de	evelopment, or if a site-specific	
Lake/Reser		303(d) Wate	rbody Metropo	_	harge Stream		